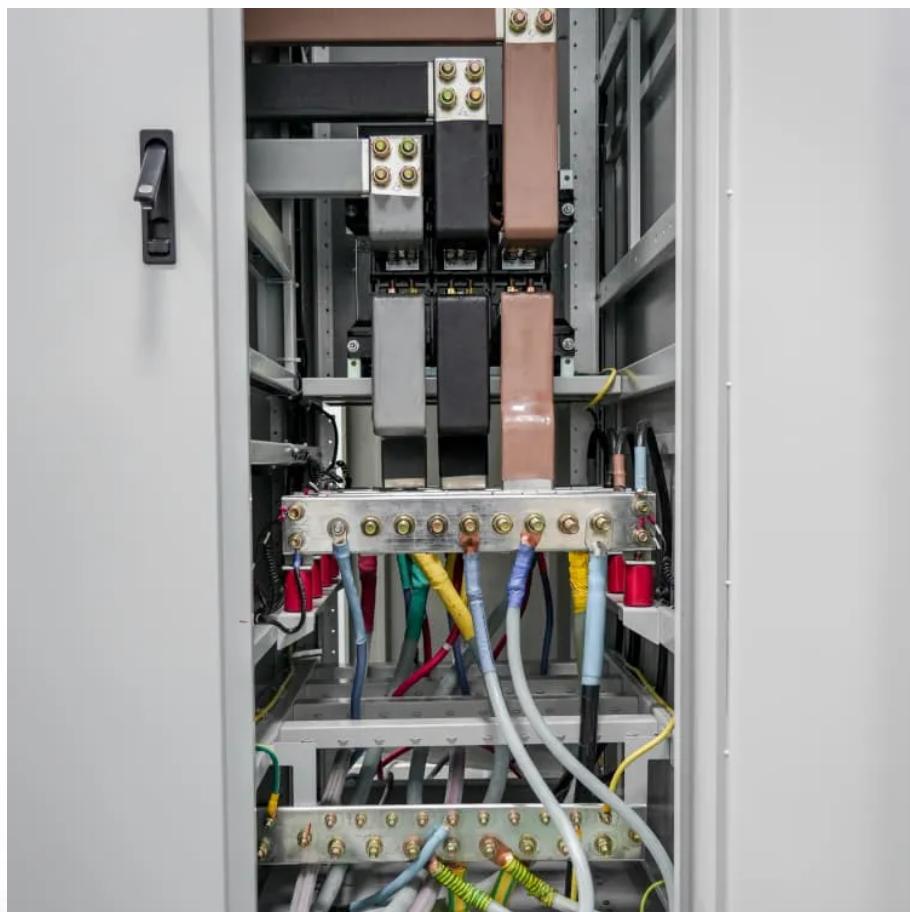




GermanSolarZA

# **Small solar power generation system customization**





## Overview

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What is a small-scale solar system?

Small-scale solar is decentralized power production taken to its extremes. Most of the work in building a small-scale solar system is deciding the size of the components and the building of the supporting structure for the solar panel. Wiring is pretty straightforward unless you want a sophisticated control panel.

Which solar panels should I buy?

For small-scale systems, 12V or 24V is what you want, especially to start with. You can also find small solar panels with voltages below 12V. People often ask which solar panels to buy, but there is little advice to give. You have a choice between mono- and polycrystalline solar panels.

Can a solar panel power a low-voltage device?

Directly coupling a low-voltage DC device to the low-voltage DC power produced by a solar panel avoids these energy losses and results in a more energy-efficient system. Practically, you can power the same device with a smaller solar panel. However, this implies that you use low-voltage appliances.

Do small Solar panels work with fixed angles?

Small-scale solar installations can also work with fixed angles. However, unlike for rooftop systems, the solar panels are usually within reach, which makes it possible to add a manual mechanism that allows to vary the tilt and perhaps also the rotation of the solar panel.



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